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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

	Complete if Known
Application Number	10/602,998
Filing Date	June 23, 2003
First Named Inventor	Thomas M. Brennan
Art Unit	~~1645~~ 1637
Examiner Name	~~Unknown~~ Chris Babic
Attorney Docket Number	28690-705.302

Sheet 1 of 27

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
AMB		4,683,202	07/28/87	Mullis	
		4,834,946	05/30/89	Levin	
		5,143,854	09/01/92	Pirrung, *et al.*	
		5,202,231	04/13/93	Dramanac, *et al.*	
		5,412,087	05/02/95	McGall, *et al.*	
		5,445,934	08/29/95	Fodor, *et al.*	
		5,445,943	08/29/95	Hoenes	
		5,474,796	12/12/95	Brennan	
		5,489,678	02/06/96	Fodor, *et al.*	
		5,492,806	02/20/96	Dramanac, *et al.*	
		5,525,464	06/11/96	Dramanac	
		5,545,568	08/13/96	Ellman	
		5,556,749	09/17/96	Mitsushashi, *et al.*	
		5,571,639	11/05/96	Hubbell, *et al.*	
		5,614,608	03/25/97	Krchnak, *et al.*	
		5,650,277	07/22/97	Navot, *et al.*	
		5,667,972	06/16/97	Dramanac, *et al.*	
		5,679,773	10/21/97	Holmes	
		5,691,141	11/25/97	Köster	

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Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] – Number[4] – Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
AMB		EP 717113A2	06/19/96	Affymetrix, Inc.		
		WO 92/15712	09/17/92	Molecular Tools, Inc.		
		WO 93/09250	05/13/93	Adalaide Children's Hospital University of South Australia		
		WO 93/17126	09/02/93	The Public Health Research Institute of the City		

Examiner Signature		Date Considered	4/12/05

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Sheet	2	of	27	Attorney Docket Number	28690-705.302

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CMB		5,695,940	12/09/97	Dramanac, *et al.*	
		5,700,637	12/23/97	Southern	
		5,700,642	12/23/97	Monoforte, *et al.*	
		5,710,028	01/20/98	Eyal, *et al.*	
		5,739,386	04/14/98	Holmes	
		5,744,305	04/28/98	Fodor, *et al.*	
		5,800,992	09/01/98	Fodor, *et al.*	
		5,830,655	11/03/98	Monoforte, *et al.*	
		5,837,832	11/17/98	Chee, *et al.*	
		5,846,943	12/08/98	Hindsgaul, *et al.*	
		5,858,653	01/12/99	Duran, *et al.*	
		5,858,659	01/12/99	Sapolsky, *et al.*	
		5,871,928	02/16/99	Fodor, *et al.*	
		5,888,819	03/30/99	Goelet, *et al.*	
		5,889,165	03/30/99	Fodor, *et al.*	
		5,917,016	06/29/99	Holmes	
		5,919,626	07/06/99	Shi, *et al.*	
		5,922,534	07/13/99	Lichtenwalter	
		5,927,547	07/27/99	Papen, *et al.*	

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CMB		WO 95/11995	05/04/95	Affymax Technologies N.V.		
		WO 97/28282	08/	Stratagene		
		WO 97/43447	11/20/97	Motorola		
		WO 97/45730	12/04/97	Biodx		
		WO 98/09735	03/12/98	International Business machine Corporation		

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Sheet	3	of	27	Attorney Docket Number	28690-705.302«CaseNumber»

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AMB		5,929,208	07/27/99	Heller, *et al.*	
		5,972,619	10/26/99	Dramanac, *et al.*	
		5,985,551	11/16/99	Brennan	
		5,985,557	11/16/99	Prudent, *et al.*	
		5,985,761	11/16/99	Saprks, *et al.*	
		6,001,567	12/14/97	Brow, *et al.*	
		6,018,041	01/25/00	Dramanac, *et al.*	
		6,025,136	02/15/00	Drmanac	
		6,028,189	02/22/00	Blanchard	
		6,030,782	02/29/00	Anderson, *et al.*	
		6,040,138	03/21/00	Lockhart, *et al.*	
		6,043,031	03/28/00	Köster, *et al.*	
		6,054,270	04/25/00	Southern	
		6,074,823	06/13/00	Köster	
		6,083,763	07/04/00	Balch	
		6,090,995	07/18/00	Reich, *et al.*	
		6,103,479	08/15/00	Taylor	
		6,197,506	03/06/01	Fodor, *et al.*	
		6,210,894	04/03/01	Brennan	

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AMB		WO 99/21957	05/06/99	The University of North Carolina at Chapel Hill		
		WO 98/22487	05/28/98	Synsorb Biotech, Inc.		
		WO 98/28438	07/02/98	Diatech Pty. Ltd.		
		WO 98/30883	07/16/98	Sheldon, Edward L.		

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CMB		6,291,183	09/18/01	Pirrung, *et al.*	
|		6,309,822	10/30/01	Fodor, *et al.*	
|		6,309,823	10/30/01	Cronin, *et al.*	
|		6,309,831	10/30/01	Goldberg, *et al.*	
|		6,310,189	10/30/01	Fodor, *et al.*	

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Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] – Number[4] – Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
CMB		WO 98/38490	09/03/98	Biodx, Inc.		
|		WO 98/38846	09/11/98	Affymetrix, Inc.		
|		WO 98/41531	09/24/98	University of Washington		
|		WO 98/46247	10/22/98	Wisconsin Alumni Research Foundations		
|		WO 98/47003	10/22/98	United States of America		
|		WO 98/50403	11/12/98	THIRD WAVE TECHNOLOGIES,INC.		
|		WO 98/54362	12/03/98	The Perkin-Elmer Corporation		
|		WO 98/56954	12/17/98	Affymetrix, Inc		
|		WO 99/05308	02/04/99	RAPIGENE, INC.		
|		WO 99/06593	02/11/99	Sarnoff Corporation		
|		WO 99/06834	02/11/99	IXSYS, Incorporated		
|		WO 99/07888	02/18/99	Bulynk, Martha L.		
|		WO 99/09073	02/25/99	Akazo Nobel N.V.		
|		WO 98/21221	05/22/98	Synsorb Biotech, Inc		
|		WO 94/11530	05/26/94	Trustees of Boston University		
|		WO 93/17136	09/02/93	The Dow Chemical Company		
|		WO 98/33586	08/06/98	Protogene Laboratories, Inc.		

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CMS		WO 99/14228	03/25/99	Affymetrix, Inc		
		WO 99/27137	06/03/99	Orchid Biocomputer, Inc.		
		WO 99/37812	07/29/99	Orchid Biocomputer, Inc		
		WO 99/39004	08/05/99	The government of the United States of America, Secretray, Department of Health and Human Services		
		WO 99/47701	09/23/99	November AG Novus Medicatus Bertling Gesellschaft fur Molekulare Medizin		
		WO 99/54509	10/28/99	Affymetrix, Inc.		
		WO 99/58708	11/18/99	Rosetta Inpharmatics, Inc		
		WO 00/03246	01/20/00	Cellomics, Inc.		
		WO 00/17624	03/30/00	Cellomics, Inc.		
		WO 00/17643	03/30/00	Cellomics, Inc.		
		WO 00/50872	08/31/00	Cellomics, Inc.		

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Sheet	6	of	27	Attorney Docket Number	28690-705.302

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
CMB		ABRAMSON et al., Nucleic acid amplification technologies, Curr. Opin. Biotechnol., 1993, pp.41-47, vol. 4	
		ABRAVAYA et al., Detection of poinT mutations with a modified ligase chain reaction, Nucleic Acids Res., 1995, pp 675-682, vol 23	
		ADINOLFI et al., Solid Phase Synthesis of Oligosaccharides, Tetrahedron Lett., 1996, pp 5007-5010, 37 (28)	
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		ANDRES et al., Transistion metal mediated reactions in combinatorial synthesis, Curr. Opin. Chem. Biol., 1998, pp353-362, vol 2	
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		AUSUBEL et. al., Current Protocols in Molecular Biology, John Wiley & Sons, 1989, vol. 1-2	
		BEIER et. al., Versatile Derivatisation of solid support media for covalent bonding on DNA-microchips, Nucleic Acids Res., 1999, pp 1970-1977, vol. 27 (9)	

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CMB		BLANCHARD et. al., Syntheic DNA Arrays, Biosenors and Bioelectronics, 1996, pp 687-690, vol. 11	
		BLIXT et. al., Solid-Phase Enzymatic Synthetic of a Sialy Lewis X Tetrassaccharide on a Sepharose Matrix, J. Org. Chem., 1998, pp.2705-2710, vol. 63	
		BRZOSKA et. al., Evidence of a transistion temperature for the optimum depostion of grafted monolayer coatings, Nature, 1992, pp 719-721, 360	
		BUHR et. al., Oligodeoxynucleotides containing C-7 propyne analogs of 7-deaza 2'-deoxyguanosine and 7-deaza-2'-deoxyadenosine, Nucleic Acids Res., 1996, pp 2974-2980, 24 (15)	
		BULYK et. al., Quantifying DNA-protein interactions by double-stranded DNA arrays, Nature Biotechnology, 1999, 573-577, 17	
		BURG et. al., Real-Time Fluorescense Detection of RNA Amplified by QB Replicase, Anal. Biochem., 1995, pp263-272, vol . 230	
		CANTOR and SCHIMMEL et. al., Part 1: The conformation of biological macromolecules, Biophycical Chemistry, San Francisco, W.H. Freeman, 1980	

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CWS		CASE-GREEN et. al., Analyzing genetic information with DNA arrays., Cur. Opin. In Chem. Biol., 1998, pp 404-410, vol. 2	
		CZARNIK, et. al., Guest Editorial, Accounts Chem. Rev., 1996, pp112-170, vol. 29	
		DANISHEFSKY et. al., A Stategy for the Solid-Phase Synthetic of Oligosaccharides, Science, 1993, pp1307-1309, vol 260	
		DERISI, et. al., Exploring the Metabolic and Genetic Control of Gene Expression on A Genomic Scale, Science, 1997, pp680-686, vol 278	
		DE WILDT et. al., Antibody arrays for high-throughput screening of antibody-antigen interactions, Nature, 2000, pp 989, vol. 18	
		DRMANAC et. al., Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method, Genomics, 1989, pp114-28, vol 4	
		DRMANAC et. al., Accurate sequencing by hybridization for DNA diagnostics and individual genomics, Nature Biotechnology, 1998, pp 54-58, vol 16	
		DE WILDT et. al., Antibody arrays for high-throughput screening of antibody-antigen interactions, Nature, 2000, pp 989, vol. 18	

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Substitute for form 1449/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(Use as many sheets as necessary)*				*Complete if Known*	
				Application Number	10/602,998
				Filing Date	June 23, 2003
				First Named Inventor	Thomas M. Brennan
				Art Unit	~~1645~~ 1637
				Examiner Name	~~Unknown~~ Chris Bass
Sheet	9	of	27	Attorney Docket Number	28690-705.302

NON PATENT LITERATURE DOCUMENTS			
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		DUGGAN et. al., Expression profiling using cDNA microarrays, Nature Genetics Supplement, 1999, pp 10-14, 21	
		ECKERT et al., DNA Polymerase Fidelity and the Polymerase Chain Reaction, PCR Methods and Applications, 1991, pp17, vol 1	
		EDMAN et al., Electric field directed nucleic acid hybridization on microchips, Nucleic Acids Research, 1997, pp 4907-4914, vol. 25(24)	
		EISENBERG et al., Protein function in the post-genomic era, Nature, 2000, pp 823-826, vol. 405	
		FODOR et al., Light-Directed, Spatially Addressable Parallel Chemical Synthesis, Science, 1991, pp 767-773, vol 251	
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CMA		GELFAND et. al., ASDB: database of alternatively spliced genes, Nucleic Acids Res., 1999, pp.301-302, vol. 27(1)	
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		GREENBERG, Photochemical Release of Protected Oliucleotides Contatining 3'-Glycolate Termini, Tetrahedron, 1995, pp 29-38, vol. 51	
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		HECKEL et al., Oligosaccharide Synthesis on Controlled-Pore Glass as Solid Phase Material, Synlett, 1998, pp. 171-173	

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				Examiner Name	~~Unknown~~ Chris Baśic
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CMB		HYNDMAN et al., Software to Determine Optimal Oligonucleotide Sequences Based on Hybridization Simulation Data, BioTechniques, 1996, pp 1090-1097, vol. 20(6)	
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		KAHN et al., Modern Methods in Carbohydrate Synthesis, Harwood Academic, 1996, Amsterdam	
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		LLOYD-WILLIAMS, et al., Convergent Solid-phase peptide synthesis, Tetrahedro, 1993, pp 11065-11133, vol. 49	

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				Filing Date	June 23, 2003
				First Named Inventor	Thomas M. Brennan
				Art Unit	~~1645~~ 1637
				Examiner Name	~~Unknown~~ Chris Bobic
Sheet	18	of	27	Attorney Docket Number	28690-705.302

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Substitute for form 1449/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(Use as many sheets as necessary)*				*Complete if Known*	
				Application Number	10/602,998
				Filing Date	June 23, 2003
				First Named Inventor	Thomas M. Brennan
				Art Unit	~~1645~~ 1637
				Examiner Name	~~Unknown~~ Chris Basic
Sheet	26	of	27	Attorney Docket Number	28690-705.302

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
AMB		WIEDMANN, et al., Ligase Chain Reaction (LCR) - Overview and Applications, PCR Methods Appl, 1994, pp51-64, vol. 3	
		WHITE, High-Throughput Screening in Drug Metabolism and Pharmacokinetic Support of Drug Discovery, Annu. Rev. Pharmacol. Toxicol, 2000, pp133-157, vol. 40	
		WU, et al, The Ligation Amplification Reaction (LAR) - Amplification of Specific DNA Sequences Using Sequential Rounds of Template-Dependent Ligation, Genomics, 1989, pp560-569, vol. 4	
		YAMADA, et al, An Efficient Synthesis of Sialoglycoconjugtes on a Peptidase-Sensitive Polymer Support, Tetrahedron Lett., 1995, pp9493-9496, vol. 36	
		YAN et al, Glycosylation on the Merrifield Resin Using Anomerica Sulfoxides, J. Am. Chem. Soc, 1994, pp6953-6954, vol. 116	
		YOO et al, Synthesis of Oligonucleotides Containing 3'-Alkyl Carboxylic Acids Using Universal, Photolabile Solid Phase Synthesis Supports, J. of Org. Chem, 1995, pp3358-3364, vol. 60	
		YOUNG, Biomedical Discovery with DNA Arrays, Cell, 2000, pp9-15, vol. 102	

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				Filing Date	June 23, 2003
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Sheet	27	of	27	Attorney Docket Number	28690-705.302

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CMB		Zheng et al, Solid Support Oligosaccharide Synthesis: Construction of B-Linked Oligosaccharides by Coupling by Glycal Derived Thioethyl Glycosyl Donors, J. Org. Chem., 1998, pp 1126-1130, vol. 63	

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